

ABSTRACT

A closed crankcase emission control assembly for an internal combustion engine includes a filter assembly comprising a housing and a replaceable filter element. The filter element includes a ring of filter media; a first annular end cap sealed to one end of the media ring; a second end cap sealed to another end of the media ring; a cup-shaped valve pan fixed to the second end cap and which together therewith defines a sump container; and an opening with a lip seal in the valve pan which closely receives a standpipe from the housing to allow continuous drainage of oil collected by the filter element. The filter housing includes an inlet port to receive blow-by gasses from the engine crankcase, and an outlet port to provide the substantially oil and particulate free gasses to an induction system (e.g. a turbocharger) and back to the engine crankcase.